



Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax 613 632-5246

# Purchasing Receipts

| PO No    | Supplier  | Line Item No | Rel No | Terms  | Purchased Item     | Description  | For Part No | Project | Equipment ID | Order Qty     | Due Date  | Received Quantity | Accounting Job No | Container No | Status | Receive Date | Price/Unit   | Aging Days | Past Due | Total           | Supplier Name |
|----------|-----------|--------------|--------|--------|--------------------|--|-------------|---------|--------------|---------------|-----------|-------------------|-------------------|--------------|--------|--------------|--------------|------------|----------|-----------------|---------------|
| P0041135 | TWM001-VU | 1            | 1      | Net 30 | M6061T6T0.625W.125 | 6061-T6 Round<br>Tube 0.625 X.125W<br>: MATERIAL: 6061-T6/T62/T6510/T6511<br>SEAMLESS<br>TUBING AS PER<br>WW-T-700/8 OR<br>QQ-A-200/8 OR QQ-A-225/8 OR AMS<br>4080 OR AMS 40 82<br>OR AMS 4083 OR<br>ASTM B210 OR<br>ASTM B241 receive<br>ft |             |         |              | 36            | 10/3/2018 | 36                |                   | S115856      | Stock  | 10/3/2018    | \$ 5.15 / ft | 1          |          | \$185.40        | TW Metals     |
|          |           | 2            |        |        | M6061T6T0.375W.058 | 6061-T6 Round<br>Tube .375 X.058W :<br>MATERIAL: 6061-T6/T62/T6510/T6511<br>SEAMLESS<br>TUBING AS PER<br>WW-T-700/8 OR<br>QQ-A-200/8 OR QQ-A-225/8 OR AMS<br>4080 OR AMS 40 82<br>OR AMS 4083 OR<br>ASTM B210 OR<br>ASTM B241 receive<br>ft  |             |         |              | 84            |           | 84                |                   | S115857      | Stock  | 10/3/2018    | \$ 2.64 / ft | 1          |          | \$221.79        | TW Metals     |
|          |           |              |        |        |                    |  |             |         |              | <b>Total:</b> |           | <b>120</b>        |                   |              |        |              |              |            |          | <b>\$407.19</b> |               |

Plex 10/4/2018 8:47 AM dart.Tollis.Andrew



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO041135**

**Supplier:** TWM001-VU  
TW Metals  
PO Box 933014  
Atlanta, GA 31193-3014 USA  
Phone: 585 768 5600  
Fax: 585 768 5601

**PO No:** PO041135

**PO Date:** 9/25/18

**Due Date:** 10/3/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
SEP 26 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

## **Items**

| Line Item           | Job | Part               | Supplier Part No | Description  | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD)            | Extended Price  |
|---------------------|-----|--------------------|------------------|--|--------|---------|----------|----------------|-------------------|---------|-----------------------------|-----------------|
| 1<br>AT             |     | M6061T6T0.625W.125 |                  | 6061-T6 Round<br>Tube 0.625 X.125W<br>: MATERIAL: 6061-<br>T6/T62/T6510/T6511<br>SEAMLESS<br>TUBING AS PER<br>WW-T-700/8 OR<br>QQ-A-200/8 OR QQ-<br>A-225/8 OR AMS<br>4080 OR AMS 40 82<br>OR AMS 4083 OR<br>ASTM B210 OR<br>ASTM B241<br>receive ft | Firmed | -       | 10/3/18  | 36 pcs<br>✓    | 0 pcs<br>36ft     | 36 pcs  | \$5.15/pcs<br>AT 18/10/04   | \$185.40        |
| 2<br>A              |     | M6061T6T0.375W.058 |                  | 6061-T6 Round<br>Tube .375 X.058W<br>: MATERIAL: 6061-<br>T6/T62/T6510/T6511<br>SEAMLESS<br>TUBING AS PER<br>WW-T-700/8 OR<br>QQ-A-200/8 OR QQ-<br>A-225/8 OR AMS<br>4080 OR AMS 40 82<br>OR AMS 4083 OR<br>ASTM B210 OR<br>ASTM B241<br>receive ft  | Firmed | -       | 10/3/18  | 84 pcs<br>✓    | 0 pcs<br>84ft     | 84 pcs  | \$2.6404/pcs<br>AT 18/10/04 | \$221.79        |
| <b>Grand Total:</b> |     |                    |                  |  |        |         |          |                |                   |         |                             | <b>\$407.19</b> |

*[Handwritten signature]*  
*CL*



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO041135

### Order Notes

#### Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
  
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
  
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 9/25/18 12:38 PM dart.lavoie.chantal



O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 60665715

FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT: 14.007 REQ.DATE: 10/03/18 CONFIRMED  
SOLD TO: SHIP TO:  
DART AEROSPACE LTD DART AEROSPACE LTD  
1270 ABERDEEN ST 1270 ABERDEEN ST  
HAWKESBURY ON HAWKESBURY ON  
CANADA ONTARIO CANADA  
CN K6A 1K7 CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 09/27/18  
TERMS: NET 30 DAYS VIA: COMMON CARRIER  
F.O.B.: SHIPPING POINT FREIGHT: PREPAID  
CUST ORD NO.: PO041135 RELEASE NO.:  
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH  
0001 42588 D6061-T6 5/8 OD X .125 WA 12 FT ML

| CLN# | ORD QTY   | INVOICE QTY | SHIPPED QTY | WT    | PCS |
|------|-----------|-------------|-------------|-------|-----|
|      | 36.000 FT | 36.000 FT   | 36.000 FT   | 8.312 | 3   |

\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00  
PO:49375542 HT:F002495120001 PC: 3 CUSTOMER QTY: UOM  
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:224098

0002 41952 D6061-T6 3/8 OD X .058 WA 12 FT ML

| CLN# | ORD QTY   | INVOICE QTY | SHIPPED QTY | WT    | PCS |
|------|-----------|-------------|-------------|-------|-----|
|      | 84.000 FT | 84.000 FT   | 84.000 FT   | 5.695 | 7   |

\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00  
PO:49389319 HT:F002702540001 PC: 7 CUSTOMER QTY: UOM  
MLT: MFG:UNITED STATES SLB/CL:226113

BROKERS KUEHNE AND NAGEL LTD

| AREA              | TYPE OF PKG   | PKGS  | GRS  | WEIGHT       | WIDTH  | LENGTH   | HGHT   |
|-------------------|---------------|-------|------|--------------|--------|----------|--------|
| NEW PEN           | DOUBLE CARTON | 1.000 |      | 44.000       | 4.0000 | 150.0000 | 4      |
| Orders In Package | - 1           | Box   | No - | TWPK18037824 |        | CUBIC FT | 1.3889 |
|                   |               | 1.000 |      | 44.000       |        |          |        |

BY: Tom Weaver  
RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

DATE FILLED

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE  
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL  
REVIEW.  
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



**Packing  
Slip**

ORDER NO.: 60665715 FROM: CRAN PAGE 2

|                      |                    |                    |            |
|----------------------|--------------------|--------------------|------------|
| CUST NUMBER: 1203820 | NET WGT: 14.007    | REQ.DATE: 10/03/18 | CONFIRMED  |
| SOLD TO:             | SHIP TO:           |                    |            |
| DART AEROSPACE LTD   | DART AEROSPACE LTD |                    |            |
| 1270 ABERDEEN ST     | 1270 ABERDEEN ST   |                    |            |
| HAWKESBURY ON        | HAWKESBURY ON      |                    |            |
| CANADA               | CN K6A 1K7         | ONTARIO CANADA     | CN K6A 1K7 |

|                            |                     |
|----------------------------|---------------------|
| SALESPERSON: DONNA SMALLEY | SHIP BY: 09/27/18   |
| TERMS: NET 30 DAYS         | 27 ENGLEHARD DRIVE  |
| F.O.B.: SHIPPING POINT     | MONROE TWP NJ 08831 |
| CUST ORD NO.: PO041135     |                     |
| VIA: COMMON CARRIER        |                     |
| FREIGHT: PREPAID           |                     |
| RELEASE NO.:               |                     |
| RECEIVING PHONE:           |                     |

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

**"CERTIFICATE OF CONFORMANCE"**

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 9/26/18

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

**THANK YOU FOR THIS ORDER**

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.  
<http://www.twmetals.com/invoice-terms.html>

# KAISER ALUMINUM FABRICATED PRODUCTS

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

|   |                         |                                |   |  |                      |
|---|-------------------------|--------------------------------|---|--|----------------------|
| CUSTOMER PO NUMBER:<br>M49375542-1  |                         | CUSTOMER PART NUMBER:<br>42588 |   | PRODUCT DESCRIPTION:<br>Drawn Seamless Tube/Pipe |                      |
| KAISER ORDER NUMBER:<br>224098  | LINE ITEM:<br>001       | SHIP DATE:<br>09/11/2017       | KAISER LOT NUMBER:<br>F00249512   | ALLOY:<br>6061                                   | TEMPER:<br>T6        |
| WEIGHT SHIPPED:<br>241.000 LB   | QUANTITY:<br>87.000 PCS | B/L NUMBER:<br>226742          | DIAM/DAF/THKNS:<br>   | WIDTH:<br>                                       | LENGTH:<br>12.000 FT |
| SHIP TO:<br>TW METALS INC<br>27 ENGLEHARD DRIVE<br>EXIT 8A OFF NJ TPK<br>MONROE TWP, NJ 08831 USA |                         |                                | SOLD TO:<br>TW METALS INC<br>760 CONSTITUTION DRIVE<br>SUITE 204<br>EXTON, PA 19341 USA |  |                      |

### Actual Physical Properties

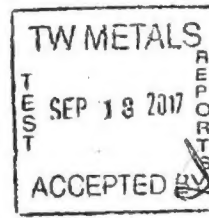
| REFERENCE | DASH# | SAMPLE# | UTS (KSI) | YTS (KSI) | ELONG% | HARDNESS | CON%IACS | BEND |
|-----------|-------|---------|-----------|-----------|--------|----------|----------|------|
| F00249512 | 0001  | 1       | 47.7      | 41.2      | 19.0   | N/A      | N/A      | N/A  |

### Chemical Composition (wt%), Aluminum Remainder

| LIMITS  | Si   | Fe   | Cu   | Mn   | Mg   | Cr   | Zn   | Ti   | Pb  | Bi  | Zr  | Ea   | Tot  |
|---------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|
| Maximum | 0.80 | 0.70 | 0.40 | 0.15 | 1.20 | 0.35 | 0.25 | 0.15 | NA  | NA  | NA  | 0.05 | 0.15 |
| Minimum | 0.40 | 0.00 | 0.15 | 0.00 | 0.80 | 0.04 | 0.00 | 0.00 | NA  | NA  | NA  | 0.00 | 0.00 |
| D30480  | .58  | .31  | .23  | .04  | .94  | .09  | .05  | .02  | .00 | .00 | .00 | .02  | .03  |

### Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.1250"; Round @  
AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F  
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.  
This Product Complies to FAR BAA, DFARS BAA, FAR TAA  
COMPLIES TO DIN EN 10204 JAN 2005  
No Weld Repair. Mercury Free.



### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

*Best in Class*

**CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

*Hans Kattentidt*

PURCHASE MATERIAL  $\triangle C$  6061-T6 627651076511 SEAMLESS TUBING

SPECIFICATION:

WW-T-700/8  
OR QQ-A-200/8 OR QQ-A-225/8  
OR AMS 4080 OR AMS 4082 OR AMS 4083  
OR ASTM B210 OR ASTM B241  $\triangle C$

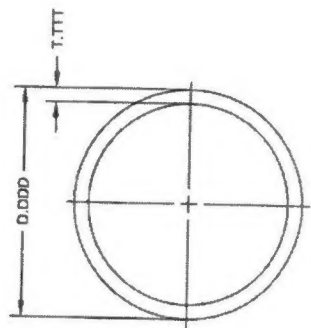
PART NUMBER:

M6061T6TDDDDWT.TTT  
OD | WALL  $\triangle C$

WHERE "D.DDD" = OD IN INCHES  
"T.TTT" = WALL THICKNESS  
EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058

MATERIAL TOLERANCE:

PER ANSI H35.2  $\triangle C$



RELEASED  
R 2013-07-02

|   |  |     |          |
|---|--|-----|----------|
| C   | COMPLETE REFORMAT, ADDED T6510 & T6511.<br>ADDED AMS 4083, ASTM B210 & ASTM B241<br>ADDED MATERIAL TOLERANCE | AJS | 13.06.12 |
| B   | ADD QQ-A-200/8 & QQ-A-225/8  | CP  | 04.01.23 |
| A   | NEW ISSUE  | DS  | 01.08.21 |
| REV.  | DESCRIPTION  | BY  | DATE     |
| DESIGN  | AJS  |     |          |
| DRAWN   | AJS  |     |          |
| CHECKED   | W  |     |          |
| MFG. APPR   | W  |     |          |
| APPROVED  |  |     |          |
| DE APPR   |  |     |          |
| DATE  | 13.06.12   |     |          |
| <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA<br>REV. C<br>DRAWING NO. M6061T6T<br>SHEET 1 OF 1<br>TITLE 6061-T6 TUBING<br>SCALE NTS<br>COPYRIGHT © 2011 BY DART AEROSPACE LTD<br>ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD. |  |     |          |



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 70.625W.125  
 DATE: 12/10/04

PO / BATCH NO.: P004W35/S115856

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 36ft  
 QUANTITY INSPECTED: 36ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625"  
 THICKNESS RECEIVED: 0.625"  
 SHEET SIZE ORDERED: -  
 SHEET SIZE RECEIVED: -

| DESCRIPTION  | NCR<br>(Check<br>Y/N) |     | COMMENTS           |
|--|-----------------------|-----|--------------------|
| SURFACE DAMAGE                                     | Y                     | (N) |                    |
| CORRECT FINISH                                     | (Y)                   | (N) |                    |
| CORROSION  | Y                     | (N) |                    |
| CORRECT GRAIN DIRECTION                            | (Y)                   | (N) |                    |
| CORRECT MATERIAL PER M-DRAWING                     | Y                     | N   | AMS 4082           |
| CORRECT THICKNESS                                  | (Y)                   | (N) |                    |
| PHOTO REQUIRED                                     | Y                     | (N) |                    |
| CORRECT REF # TO LINK CERT                         | (Y)                   | N   | MT. F00249512-0001 |
| CORRECT MATERIAL IDENTIFICATION                    | (Y)                   | N   |                    |
| CORRECT M# ON THE MATERIAL                         | (Y)                   | N   |                    |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y                     | (N) |                    |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y                     | (N) |                    |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|--|-----|-----|-------|-------|---------|
| TYPE OF MATERIAL   | HRC | HRB | DUR A | DUR D | WEBSTER |
| SIZE OF TEST SAMPLE  |     |     |       |       |         |
| HARDNESS / DUROMETER READING   |     |     |       |       |         |

*testers located in the Quality Office*

|                         |                      |  |  |
|-------------------------|----------------------|--|--|
| <b>QC 18 INSPECTION</b> |                      | <b>ENGINEERING SIGNOFF (if required)</b> |  |
| INSPECTED BY: <u>AT</u> | SIGNED OFF BY: _____ |  |  |
| DATE: <u>12/10/04</u>   | DATE: _____          |  |  |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

|   |                          |                                |   |  |                      |
|---|--------------------------|--------------------------------|---|--|----------------------|
| CUSTOMER PO NUMBER:<br>M49389319-1  |                          | CUSTOMER PART NUMBER:<br>41952 |   | PRODUCT DESCRIPTION:<br>Drawn Seamless Tube/Pipe |                      |
| KAISER ORDER NUMBER:<br>226113  | LINE ITEM:<br>001        | SHIP DATE:<br>05/29/2018       | KAISER LOT NUMBER:<br>F00270254   | ALLOY:<br>6061                                   | TEMPER:<br>T6        |
| WEIGHT SHIPPED:<br>389.000 LB   | QUANTITY:<br>479.000 PCS | B/L NUMBER:<br>229783          | DIAM/DAF/THKNS:<br>   | WIDTH:<br>                                       | LENGTH:<br>12.000 FT |
| SHIP TO:<br><br>TW METALS INC<br>235 WEST TUBEWAY DRIVE<br>CAROL STREAM, IL 60188 USA |                          |                                | SOLD TO:<br><br>TW METALS INC<br>760 CONSTITUTION DRIVE<br>SUITE 204<br>EXTON, PA 19341 USA |  |                      |

### Actual Physical Properties

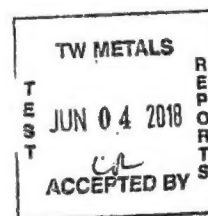
| REFERENCE | DASH# | SAMPLE# | UTS (KSI) | YTS (KSI) | ELONG% | HARDNESS | CON%IACS | BEND |
|-----------|-------|---------|-----------|-----------|--------|----------|----------|------|
| F00270254 | 0001  | 0001    | 46.4      | 37.6      | 18.5   | N/A      | N/A      | N/A  |

### Chemical Composition (wt%), Aluminum Remainder

| LIMITS  | Si   | Fe   | Cu   | Mn   | Mg   | Cr   | Zn   | Ti   | Pb  | Bi  | Zr  | Ea   | Tot  |
|---------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|
| Maximum | 0.80 | 0.70 | 0.40 | 0.15 | 1.20 | 0.35 | 0.25 | 0.15 | NA  | NA  | NA  | 0.05 | 0.15 |
| Minimum | 0.40 | 0.00 | 0.15 | 0.00 | 0.80 | 0.04 | 0.00 | 0.00 | NA  | NA  | NA  | 0.00 | 0.00 |
| D21279  | .58  | .18  | .22  | .06  | .97  | .06  | .02  | .02  | .00 | .00 | .00 | .01  | .02  |

### Applicable Requirements:

Description: OD: 0.3750"; Wall: 0.0580"; Round @  
AMS4082P AMS-WW-T-700/6C ASTM B210-12  
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.  
This Product Complies to FAR BAA, DFARS BAA, FAR TAA  
COMPLIES TO DIN EN 10204 JAN 2005  
No Weld Repair. Mercury Free.



### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA.  
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA  
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5  
TRADE AGREEMENTS).

Plant Serial: 00028471  
Kaiser Order Number: 226113  
Line Item: 001

# **KAISER ALUMINUM**

**FABRICATED PRODUCTS**

*Best in Class*

## **CERTIFIED TEST REPORT**

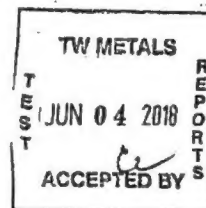
<http://Online.KaiserAluminum.com>

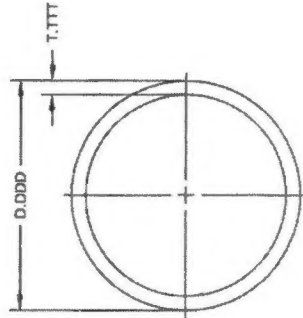
KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

### **CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager





PURCHASE MATERIAL: 6061-T6/70510/70511 SEAMLESS TUBING

SPECIFICATION:

WW-T-7008  
 OR QQ-A-200/8 OR QQ-A-225/8  
 OR AMS 4083 OR AMS 4082 OR AMS 4083  
 OR ASTM B210 OR ASTM B241

PART NUMBER:

M6061T6T D.DDD/W.T.TTT  
OD WALL

WHERE "D.DDD" = OD IN INCHES  
"T.TTT" = WALL THICKNESS

EG. 3/8" OD X 0.058 WALL = M6061T6T0.375W0.058

MATERIAL TOLERANCE:

PER ANSI H35.2

RELEASED  
2013-07-02

|  |  |     |          |
|--|--|-----|----------|
| C  | COMPLETE REFORMAT, ADDED T6510 & T6511.<br>ADDED AMS 4083, ASTM B210 & ASTM B241<br>ADDED MATERIAL TOLERANCE | AJS | 13.08.12 |
| B  | ADD QQ-A-200/8 & QQ-A-225/8  | OP  | 04.01.23 |
| A  | NEW ISSUE  | DS  | 01.08.21 |
| REV.   | DESCRIPTION  | BY  | DATE     |
| DESIGN   | AJS  |     |          |
| DRAWN  | AJS  |     |          |
| CHECKED  | W  |     |          |
| MFG. APPR.   | W  |     |          |
| APPROVED   | W  |     |          |
| DE APPR.   | W  |     |          |
| DATE   | 13.08.12   |     |          |
| DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA<br>REV. C<br>DRAWING NO. M6061T6T<br>SHEET 1 OF 1<br>TITLE 6061-T6 TUBING<br>SCALE NTS<br>COPYRIGHT © 2001 BY DART AEROSPACE LTD<br>THE DESIGN, CONSTRUCTION AND FABRICATION OF THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD. |  |     |          |

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T60.375W.D58

PO / BATCH NO.: P0041135 / 5115857

DATE: 18/10/04

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 844

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 844

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

| DESCRIPTION  | NCR<br>(Check<br>Y/N) |     | COMMENTS               |
|--|-----------------------|-----|------------------------|
| SURFACE DAMAGE                                     | Y                     | (N) |                        |
| CORRECT FINISH                                     | (Y)                   | N   |                        |
| CORROSION  | Y                     | (N) |                        |
| CORRECT GRAIN DIRECTION                            | (Y)                   | N   |                        |
| CORRECT MATERIAL PER M-DRAWING                     | (Y)                   | N   | AMS 4082               |
| CORRECT THICKNESS                                  | (Y)                   | N   |                        |
| PHOTO REQUIRED                                     | Y                     | (N) |                        |
| CORRECT REF # TO LINK CERT                         | (Y)                   | N   | H7: F0027025400 - 0001 |
| CORRECT MATERIAL IDENTIFICATION                    | (Y)                   | N   |                        |
| CORRECT M# ON THE MATERIAL                         | (Y)                   | N   |                        |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y                     | (N) |                        |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y                     | (N) |                        |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|--|-----|-----|-------|-------|---------|
|  | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL   |     |     |       |       |         |
| SIZE OF TEST SAMPLE  |     |     |       |       |         |
| HARDNESS / DUROMETER READING   |     |     |       |       |         |

*testers located in the Quality Office*

|                         |  |
|-------------------------|--|
| <b>QC 18 INSPECTION</b> | <b>ENGINEERING SIGNOFF (if required)</b> |
| INSPECTED BY: <u>AT</u> | SIGNED OFF BY: _____                     |
| DATE: <u>18/10/04</u>   | DATE: _____                              |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in